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<110> Finlay, Brett B.
        Kenny, Brendant
  5   Devinney, Rebekah
        Stein, Marcus

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   30
      Gly Thr Gly His Leu Ile Ser Ser Thr Gly Ala Leu Gly Ser Arg Ser
                   35                  40                  45


      Leu Phe Ser Pro Leu Arg Asn Ser Met Ala Asp Ser Val Asp Ser Arg
   35        50                  55                  60


      Asp Ile Pro Gly Leu Pro Thr Asn Pro Ser Arg Leu Ala Ala Ala Thr
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 5              115                 120                 125

    Leu Glu Val Ser Val Thr Leu Ser Pro Gln Glu Trp Ser Ser Leu Gln
                130                 135                 140

10  Ser Ile Asp Thr Glu Gly Lys Asn Arg Phe Val Phe Thr Gly Gly Arg
    145                 150                 155                 160

    Gly Gly Ser Gly His Pro Met Val Thr Val Ala Ser Asp Ile Ala Glu
                165                 170                 175

15
    Ala Arg Thr Arg Ile Leu Ala Lys Leu Asp Pro Asp Asn His Gly Gly
                180                 185                 190

    Arg Gln Pro Lys Asp Val Asp Thr Arg Ser Val Gly Val Gly Ser Ala
20              195                 200                 205

    Ser Gly Ile Asp Asp Gly Val Val Ser Glu Thr His Thr Ser Thr Thr
                210                 215                 220

25  Asn Ser Ser Val Arg Ser Asp Pro Lys Phe Trp Val Ser Val Gly Ala
    225                 230                 235                 240

    Ile Ala Ala Gly Leu Ala Gly Leu Ala Ala Thr Gly Ile Ala Gln Ala
                245                 250                 255

30
    Leu Ala Leu Thr Pro Glu Pro Asp Asp Pro Thr Thr Thr Asp Pro Asp
                260                 265                 270

    Gln Ala Ala Asn Ala Ala Glu Ser Ala Thr Lys Asp Gln Leu Thr Gln
35              275                 280                 285

    Glu Ala Phe Lys Asn Pro Glu Asn Gln Lys Val Asn Ile Asp Ala Asn
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      Arg Arg Gln Glu Glu Leu Gln Leu Ser Ser Gly Ile Gly Tyr Gly Leu
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 10 Ser Ser Ala Leu Ile Val Ala Gly Gly Ile Gly Ala Gly Val Thr Thr
              370             375                 380

      Ala Leu His Arg Arg Asn Gln Pro Ala Glu Gln Thr Thr Thr Thr Thr
      385                 390                 395                 400
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      Thr His Thr Val Val Gln Gln Gln Thr Gly Gly Ile Pro Gln His Lys
                      405             410                 415

      Val Ala Leu Met Pro Gln Glu Arg Arg Arg Phe Ser Asp Arg Arg Asp
 20               420             425                 430

      Ser Gln Gly Ser Val Ala Ser Thr His Trp Ser Asp Ser Ser Ser Glu
                  435             440                 445

 25 Val Val Asn Pro Tyr Ala Glu Val Gly Gly Ala Arg Asn Ser Leu Ser
              450             455                 460

      Ala His Gln Pro Glu Glu His Ile Tyr Asp Glu Val Ala Ala Asp Pro
      465                 470                 475                 480
 30
      Gly Tyr Ser Val Ile Gln Asn Phe Ser Gly Ser Gly Pro Val Thr Gly
                      485             490                 495

      Arg Leu Ile Gly Thr Pro Gly Gln Gly Ile Gln Ser Thr Tyr Ala Leu
 35               500             505                 510

      Leu Ala Asn Ser Gly Gly Leu Arg Leu Gly Met Gly Gly Leu Thr Ser
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Pro Val Arg Phe Val
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<212> PRT
<213> Escherichia coli

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Gly Gln Leu Ile Asn Ser Thr Gly Pro Leu Gly Ser Arg Ala Leu Phe
            35   40   45

Thr Pro Val Arg Asn Ser Met Ala Asp Ser Gly Asp Asn Arg Ala Ser
        50   55   60

Asp Val Pro Gly Leu Pro Val Asn Pro Met Arg Leu Ala Ala Ser Glu
    65   70   75   80

Ile Thr Leu Asn Asp Gly Phe Glu Val Leu His Asp His Gly Pro Leu
                    85   90   95

Asp Thr Leu Asn Arg Gln Ile Gly Ser Ser Val Phe Arg Val Glu Thr
            100   105   110

Gln Glu Asp Gly Lys His Ile Ala Val Gly Gln Arg Asn Gly Val Glu
            115   120   125

Thr Ser Val Val Leu Ser Asp Gln Glu Tyr Ala Arg Leu Gln Ser Ile
    130   135   140

Asp Pro Glu Gly Lys Asp Lys Phe Val Phe Thr Gly Gly Arg Gly Gly
145   150   155   160

Ala Gly His Ala Met Val Thr Val Ala Ser Asp Ile Thr Glu Ala Arg
                165   170   175

Gln Arg Ile Leu Glu Leu Leu Glu Pro Lys Gly Thr Gly Glu Ser Lys
            180   185   190

Gly Ala Gly Glu Ser Lys Gly Val Gly Glu Leu Arg Glu Ser Asn Ser
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    Gly Leu Ile Gly Leu Ala Ala Thr Gly Ile Val Gln Ala Leu Ala Leu
                    245             250             255
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    Thr Pro Glu Pro Asp Ser Pro Thr Thr Thr Asp Pro Asp Ala Ala Ala
                    260             265             270

    Ser Ala Thr Glu Thr Ala Thr Arg Asp Gln Leu Thr Lys Glu Ala Phe
 15         275             280             285

    Gln Asn Pro Asp Asn Gln Lys Val Asn Ile Asp Glu Leu Gly Asn Ala
        290             295             300

 20 Ile Pro Ser Gly Val Leu Lys Asp Asp Val Val Ala Asn Ile Glu Glu
        305             310             315             320

    Gln Ala Lys Ala Ala Gly Glu Glu Ala Lys Gln Gln Ala Ile Glu Asn
                    325             330             335
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    Asn Ala Gln Ala Gln Lys Lys Tyr Asp Glu Gln Gln Ala Lys Arg Gln
                    340             345             350

    Glu Glu Leu Lys Val Ser Ser Gly Ala Gly Tyr Gly Leu Ser Gly Ala
 30         355             360             365

    Leu Ile Leu Gly Gly Gly Ile Gly Val Ala Val Thr Ala Ala Leu His
        370             375             380

 35 Arg Lys Asn Gln Pro Val Glu Gln Thr Thr Thr Thr Thr Thr Thr Thr
        385             390             395             400

    Thr Thr Thr Ser Ala Arg Thr Val Glu Asn Lys Pro Ala Asn Asn Thr
                    405             410             415
 40
    Pro Ala Gln Gly Asn Val Asp Thr Pro Gly Ser Glu Asp Thr Met Glu
                    420             425             430

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Ser Arg Arg Ser Ser Met Ala Ser Thr Ser Ser Thr Phe Phe Asp Thr
      435   440   445

5 Ser Ser Ile Gly Gly Pro Cys Arg Ile Arg Met Leu Met Leu Lys His
      450   455   460

Arg Cys Met Ile Arg Arg Cys Arg Leu Leu Ile Leu Ile Arg Leu Phe
465   470   475   480

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Arg Ile Trp Gly Ile Gln Ile Ser Val Val Tyr Ser Thr Ile Gln His
            485   490   495

Pro Pro Arg Asp Thr Thr Asp Asn Gly Ala Arg Leu Leu Gly Asn Pro
15   500   505   510

Ser Ala Gly Ile Gln Ser Thr Tyr Ala Arg Leu Ala Leu Ser Gly Gly
      515   520   525

20 Leu Arg His Asp Met Gly Gly Leu Thr Gly Gly Ser Asn Ser Ala Val
      530   535   540

Asn Thr Ser Asn Asn Pro Pro Ala Pro Gly Ser His Arg Phe Val
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<213> Escherichia coli

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Gly Ala Leu Glu Val Leu His Asp Lys Gly Gly Leu Asp Thr Leu Asn
        35                  40                  45

Ser Ala Ile Gly Ser Ser Leu Phe Arg Val Glu Thr Arg Asp Asp Gly
    50                  55                  60

Ser His Val Ala Ile Gly Gln Lys Asn Gly Leu Glu Thr Thr Val Val
65                  70                  75                  80

Leu Ser Glu Gln Glu Phe Ser Ser Leu Gln Ser Leu Asp Pro Glu Gly
                85                  90                  95

Lys Asn Lys Phe Val Phe Thr Gly Gly Arg Gly Gly Pro Gly His Ala
            100                 105                 110
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            115                 120                 125

  5 Asp Lys Leu Glu Pro Lys Asp Thr Lys Glu Thr Lys Glu Pro Gly Asp
            130                 135                 140

    Pro Asn Ser Gly Glu Gly Lys Ile Ile Glu Ile His Thr Ser Thr Ser
        145                 150                 155                 160
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    Thr Ser Ser Leu Arg Ala Asp Pro Lys Leu Trp Leu Ser Leu Gly Thr
                    165                 170                 175

    Ile Ala Ala Gly Leu Ile Gly Met Ala Ala Thr Gly Ile Ala Gln Ala
 15             180                 185                 190

    Val Ala Leu Thr Pro Glu Pro Asp Asp Pro Ile Thr Thr Asp Pro Asp
                195                 200                 205

 20 Ala Ala Ala Asn Thr Ala Glu Ala Ala Ala Lys Asp Gln Leu Thr Lys
        210                 215                 220

    Glu Ala Phe Gln Asn Pro Asp Asn Gln Lys Val Asn Ile Asp Glu Asn
        225                 230                 235                 240
 25
    Gly Asn Ala Ile Pro Ser Gly Glu Leu Lys Asp Asp Val Val Ala Gln
                    245                 250                 255

    Ile Ala Glu Gln Ala Lys Ala Ala Gly Glu Gln Ala Arg Gln Glu Ala
 30             260                 265                 270

    Ile Glu Ser Asn Ser Gln Ala Gln Gln Lys Tyr Asp Glu Gln His Ala
                275                 280                 285

 35 Lys Arg Glu Gln Glu Met Ser Leu Ser Ser Gly Val Gly Tyr Gly Ile
        290                 295                 300

    Ser Gly Ala Leu Ile Leu Gly Gly Gly Ile Gly Ala Gly Val Thr Ala
        305                 310                 315                 320
 40
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                    325                 330                 335
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Thr Asp Thr Ser Gly Pro Glu Glu Ser Pro Ala Ser Arg Arg Asn Ser
            355                 360                 365

Asn Ala Ser Leu Ala Ser Asn Gly Ser Asp Thr Ser Ser Thr Gly Thr
            370                 375                 380

Val Glu Asn Pro Tyr Ala Asp Val Gly Met Pro Arg Asn Asp Ser Leu
385                 390                 395                 400

Ala Arg Ile Ser Glu Glu Pro Ile Tyr Asp Glu Val Ala Ala Asp Pro
                405                 410                 415

Asn Tyr Ser Val Ile Gln His Phe Ser Gly Asn Ser Pro Val Thr Gly
                420                 425                 430

Arg Leu Val Gly Thr Pro Gly Gln Gly Ile Gln Ser Thr Tyr Ala Leu
            435                 440                 445

Leu Ala Ser Ser Gly Gly Leu Arg Leu Gly Met Gly Gly Leu Thr Gly
            450                 455                 460

Gly Gly Glu Ser Ala Val Ser Thr Ala Asn Ala Ala Thr Pro Gly Pro
465                 470                 475                 480

Ala Arg Phe Val


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<212> PRT
<213> Escherichia coli

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         SEQUENCE

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